

SEQUENCE LISTING

<110> Qin, Ning
 Codd, Ellen
 D'Andrea, Michael

5

<120> DNAs encoding human betala sodium channel subunit

<130> ORT-1221

10

<140>

<141>

<160> 14

15

<170> PatentIn Ver. 2.1

<210> 1

<211> 27

<212> DNA

20

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
 oligonucleotide primer

25

<400> 1

ccatcctaatacgcactcactatagggc

27

30

<210> 2

<211> 25

<212> DNA

<213> Artificial Sequence

35

<220>

<223> Description of Artificial Sequence:
 oligonucleotide primer

<400> 2

tggaccttcc gccagaaggg cactg

25

5

<210> 3

<211> 24

<212> DNA

<213> Artificial Sequence

10

<220>

<223> Description of Artificial Sequence:
oligonucleotide primer

15

<400> 3

ctggaggagg atgagcgctt cgag

24

<210> 4

20

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

25

<223> Description of Artificial Sequence:
oligonucleotide primer

<400> 4

ctattcggcc acctggacgc c

21

30

<210> 5

<211> 18

<212> DNA

35

<213> Artificial Sequence

<220>

<400> 5

18

<211> 30

<213> Artificial Sequence

<223> Description of Artificial Sequence:

<400> 6

30

<210> 7

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

oligonucleotide primer

gtgtgcctgc agctgctcaa

20

<210> 8

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic peptide

<400> 8

Arg Trp Arg Asp Arg Trp Gln Ala Val Asp Arg Thr Gly Cys
1 5 10

<210> 9

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 9

Cys Val Pro His Arg Arg Ser Gly Tyr Arg Thr Gln Leu
1 5 10

<210> 10

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide primers for Northern blot analysis

<400> 10

tcaaagcatg cctgtccc

<210> 11
 <211> 19
 <212> DNA
 <213> Artificial Sequence

5

<220>
 <223> Description of Artificial Sequence:
 oligonucleotide primers for Northern blot analysis

10

<400> 11
 tcaaaccaca ccccggaaa

19

<210> 12

15

<211> 807
 <212> DNA
 <213> Homo sapiens

<400> 12

20

atggggaggc tgctggcctt agtgggcggc gcggcactgg tgcctcagc ctgcggggggc 60
 tgcgtggagg tggactcgga gaccgaggcc gtgtatggga tgacctcaa aattctttgc 120
 atctcctgca agcgccgcag cgagaccaac gctgagacct tcaccgagtg gaccttccgc 180
 cagaagggca ctgaggagtt tgtcaagatc ctgcgctatg agaatgaggt gttgcagctg 240
 gaggaggatg agcgcttcga gggccgcgtg gtgtggaatg gcagccgggg caccaaagac 300
 25 ctgcaggatc tgtctatctt catcaccaat gtcacctaca accactcggg cgactacgag 360
 tgccacgtct accgcctgct cttcttcgaa aactacgagc acaacaccag cgtcgtcaag 420
 aagatccaca ttgaggtagt ggacaaaggc gagtcgggtg ctgcctgccc ctttaccgtc 480
 acccaccgga gagccagatg gagggacaga tggcaggcag tggacaggac aggctggctc 540
 tgtgcctggc cagccaaccg cccacagcag cgggctgagg gggagggggag cagccccctcc 600
 30 tgcccactcc agctctggcc tctgtttctc tccagcccac ggagaggtca aagcatgcct 660
 gtccccca gacgctccgg gtacagaacc cagctctgtc acctgtgctg tatgacctct 720
 ggcaggtgcc ttctgtctct gagccaaagg gttgtcctgg gcttgcccgg gataataatc 780
 cgatgtgttt ctcggggtgt ggtttga 807

35

<210> 13
 <211> 974

<212> DNA

<213> Homo sapiens

<400> 13

5 gccatgggga ggctgctggc cttagtggtc ggcgcggcac tgggtgtcctc agcctgcggg 60
 ggctgctggg aggtggactc ggagaccgag gccgtgtatg ggatgacctt caaaattctt 120
 tgcattctct gcaagcgccg cagcgagacc aacgctgaga ccttcaccga gtggaccttc 180
 cgccagaagg gcaactgagga gtttgtcaag atcctgctgt atgagaatga ggtgttgcag 240
 ctggaggagg atgagcgctt cgaggggccg gtggtgtgga atggcagccg gggcaccaaa 300
 10 gacctgcagg atctgtctat cttcatcacc aatgtcacct acaaccactc gggcgactac 360
 gagtgccacg tctaccgctt gctcttcttc gaaaactacg agcacaacac cagcgctcgtc 420
 aagaagatcc acattgaggt agtggacaaa ggtgagtcgg gtgctgcctg cccctttacc 480
 gtcacccacc ggagagccag atggagggac agatggcagg cagtggacag gacaggctgg 540
 ctctgtgcct ggccagccaa ccgcccacag cagcgggctg agggggaggg gagcagcccc 600
 15 tctgtccac tccagctctg gcctctgttt ctctccagcc cacggagagg tcaaagcatg 660
 cctgtccccc acagacgctc cgggtacaga acccagctct gtcacctgtg ctgtatgacc 720
 tctggcaggt gccttctgtc tctgagccaa agggttgtcc tgggcttgcc cgggataata 780
 atccgatgtg tttctcgggg tgtggtttga gccattcttc catcatgggg ttcattgagga 840
 ttgagcagct gcaggcacac cctggcttcc agcagagcct tgcaggtggg ggcgaggggtg 900
 20 gcggttctta ctgttgagta gctcagccct gctgctctct gtggtgatga ggcaagagag 960
 cgtgcctgtg ttgg 974

<210> 14

25 <211> 268

<212> PRT

<213> Homo sapiens

<400> 14

30 Met Gly Arg Leu Leu Ala Leu Val Val Gly Ala Ala Leu Val Ser Ser
 1 5 10 15
 Ala Cys Gly Gly Cys Val Glu Val Asp Ser Glu Thr Glu Ala Val Tyr
 20 25 30
 35 Gly Met Thr Phe Lys Ile Leu Cys Ile Ser Cys Lys Arg Arg Ser Glu
 35 40 45

[illegible]

Gly Arg Cys Leu Leu Ser Leu Ser Gln Arg Val Val Leu Gly Leu Pro
245 250 255

Gly Ile Ile Ile Arg Cys Val Ser Arg Gly Val Val
5 260 265

[illegible]